

What is claimed is :

1. A steel strip descaling apparatus for descaling with an electrolyte comprising,

a plurality of electrodes provided close to a path of the steel strip;

a voltage source connected electrically to at least one of said electrodes; and

said electrodes each having an electrolyte jet opening that jets the electrolyte through air to the steel strip.

2. A descaling apparatus according to claim 1 further including

said electrodes having an electrical conductor located to contact the electrolyte jetted from said opening in order to directly apply voltage of said electrode to a jet of electrolyte passing through air to the steel strip.

3. A descaling apparatus according to claim 3, further comprising a jet pressure adjustment of the jetted electrolyte of each electrode, wherein

said electrical conductor is placed at end of each electrode to the steel strip,

said electrical conductor connects electrically to said a voltage source,

said opening is formed at said electrical conductor, and

said electrodes each having a passage which leads the electrolyte to said opening, and

said passage is connected to said jet pressure adjustment.

4. A descaling apparatus according to claim 2, further comprising a jet pressure adjustment of the jetted electrolyte of each electrode, wherein

said opening is formed at end of said electrode to the steel strip,

said electrodes each having a passage which leads the electrolyte to said opening,

said passage is connected to said jet pressure adjustment,

said electrical conductor is placed at said passage and connects electrically to said a voltage source.

5. A descaling apparatus according to claim 1 further comprising a valve for jet pressure adjustment of the jetted electrolyte of each electrode.

6. A descaling apparatus according to claim 5 further comprising a jet pressure controller,

said jet pressure controller controls the jet pressure with said valve so that distance between said electrode and the steel strip is constant.

7. A descaling apparatus according to claim 1 further including a voltage controller,

said voltage controller controls a voltage applied to said electrode and kind of electric pole with said voltage

source.

8. A descaling apparatus according to claim 1 further comprising

an electrolyte bath to store the electrolyte,

a plurality of rollers to hold the steel strip above said electrolyte bath, and

said electrodes are placed both sides of the steel strip.

9. A steel strip manufacturing apparatus comprising the descaling apparatus in the claim 1.

10. A steel strip descaling apparatus for descaling with an electrolyte comprising,

means for holding the steel strip so that the steel strip is not submerged in the electrolyte;

means for jetting the electrolyte to the steel strip ;

said means for jetting includes means for contacting with a jet of electrolyte passing through air to the steel strip,

said means for contacting electrically contact with the steel strip via the jet of electrolyte, and

an electric conductivity between said means for contacting and the steel strip is constant.

11. A descaling apparatus according to claim 10 further comprising means for applying voltage to said means for contacting, and

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a constant electric current passes between said means for applying and the steel strip via the jet of electrolyte passing through air to the steel strip.

12. A descaling apparatus according to claim 10 further comprising means for adjusting pressure of the jetted electrolyte and said means for jetting jet the electrolyte so that distance between said means for jetting and the steel strip is constant.

13. A steel strip descaling method for descaling with an electrolyte comprising,

a step for holding the steel strip so that the steel strip is not submerged in the electrolyte;

a step for jetting the electrolyte to the steel strip;

a step for applying voltage to a jetting electrolyte;

a jet of electrolyte passing through air to the steel electrically contacts with the steel strip, and

a constant electric current passes between the jet of electrolyte and the steel strip.

14. A steel strip descaling method according to claim 13 further comprising,

a step of adjusting pressure of the jetted electrolyte so that a length of the jet of electrolyte passing through air to the steel is constant.